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#2 OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/970,287

DATE: 10/24/2001
TIME: 16:28:57

Input Set : A:\10147611.app
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3 <110> APPLICANT: GLUCKSMANN, Maria A.
 4 MEYERS, Rachel
 5 KAPELLER-LIBERMANN, Rosana
 6 SILOS-SANTIAGO, Inmaculada
 8 <120> TITLE OF INVENTION: 22437, A NOVEL HUMAN SULFATASE AND USES THEREFOR
 10 <130> FILE REFERENCE: 10147-61U1
 C--> 12 <140> CURRENT APPLICATION NUMBER: US/09/970,287 DK
 13 <141> CURRENT FILING DATE: 2001-10-03
 15 <150> PRIOR APPLICATION NUMBER: US 60/257,082
 16 <151> PRIOR FILING DATE: 2000-12-21
 18 <160> NUMBER OF SEQ ID NOS: 12
 20 <170> SOFTWARE: PatentIn Ver. 2.1
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 23 <211> LENGTH: 3513
 24 <212> TYPE: DNA
 25 <213> ORGANISM: Homo sapiens
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89 <210> SEQ ID NO: 2

90 <211> LENGTH: 870

91 <212> TYPE: PRT

92 <213> ORGANISM: Homo sapiens

94 <400> SEQUENCE: 2

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98	Ser	Leu	Leu	Gly	Gly	Ser	Ser	Ala	Phe	Leu	Ser	His	His	Arg	Leu	Lys
99																
100																
101	Gly	Arg	Phe	Gln	Arg	Asp	Arg	Arg	Asn	Ile	Arg	Pro	Asn	Ile	Ile	Leu
102															45	
103																
104	Val	Leu	Thr	Asp	Asp	Gln	Asp	Val	Glu	Leu	Gly	Ser	Met	Gln	Val	Met
105																
106																
107	Asn	Lys	Thr	Arg	Arg	Ile	Met	Glu	Gln	Gly	Gly	Thr	His	Phe	Ile	Asn
108															80	
109																
110	Ala	Phe	Val	Thr	Thr	Pro	Met	Cys	Cys	Pro	Ser	Arg	Ser	Ser	Ile	Leu
111															95	
112																
113	Thr	Gly	Lys	Tyr	Val	His	Asn	His	Asn	Thr	Tyr	Thr	Asn	Asn	Glu	Asn
114															110	
115	Cys	Ser	Ser	Pro	Ser	Trp	Gln	Ala	Gln	His	Glu	Ser	Arg	Thr	Phe	Ala
116																

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117	115	120	125
119	Val Tyr Leu Asn Ser Thr Gly Tyr Arg Thr Ala Phe Phe Gly Lys Tyr		
120	130	135	140
122	Leu Asn Glu Tyr Asn Gly Ser Tyr Val Pro Pro Gly Trp Lys Glu Trp		
123	145	150	155
125	Val Gly Leu Leu Lys Asn Ser Arg Phe Tyr Asn Tyr Thr Leu Cys Arg		160
126	165	170	175
128	Asn Gly Val Lys Glu Lys His Gly Ser Asp Tyr Ser Lys Asp Tyr Leu		
129	180	185	190
131	Thr Asp Leu Ile Thr Asn Asp Ser Val Ser Phe Phe Arg Thr Ser Lys		
132	195	200	205
134	Lys Met Tyr Pro His Arg Pro Val Leu Met Val Ile Ser His Ala Ala		
135	210	215	220
137	Pro His Gly Pro Glu Asp Ser Ala Pro Gln Tyr Ser Arg Leu Phe Pro		
138	225	230	235
140	Asn Ala Ser Gln His Ile Thr Pro Ser Tyr Asn Tyr Ala Pro Asn Pro		240
141	245	250	255
143	Asp Lys His Trp Ile Met Arg Tyr Thr Gly Pro Met Lys Pro Ile His		
144	260	265	270
146	Met Glu Phe Thr Asn Met Leu Gln Arg Lys Arg Leu Gln Thr Leu Met		
147	275	280	285
149	Ser Val Asp Asp Ser Met Glu Thr Ile Tyr Asn Met Leu Val Glu Thr		
150	290	295	300
152	Gly Glu Leu Asp Asn Thr Tyr Ile Val Tyr Thr Ala Asp His Gly Tyr		
153	305	310	315
155	His Ile Gly Gln Phe Gly Leu Val Lys Gly Lys Ser Met Pro Tyr Glu		320
156	325	330	335
158	Phe Asp Ile Arg Val Pro Phe Tyr Val Arg Gly Pro Asn Val Glu Ala		
159	340	345	350
161	Gly Cys Leu Asn Pro His Ile Val Leu Asn Ile Asp Leu Ala Pro Thr		
162	355	360	365
164	Ile Leu Asp Ile Ala Gly Leu Asp Ile Pro Ala Asp Met Asp Gly Lys		
165	370	375	380
167	Ser Ile Leu Lys Leu Asp Thr Glu Arg Pro Val Asn Arg Phe His		
168	385	390	395
170	Leu Lys Lys Lys Met Arg Val Trp Arg Asp Ser Phe Leu Val Glu Arg		400
171	405	410	415
173	Gly Lys Leu Leu His Lys Arg Asp Asn Asp Lys Val Asp Ala Gln Glu		
174	420	425	430
176	Glu Asn Phe Leu Pro Lys Tyr Gln Arg Val Lys Asp Leu Cys Gln Arg		
177	435	440	445
179	Ala Glu Tyr Gln Thr Ala Cys Glu Gln Leu Gly Gln Lys Trp Gln Cys		
180	450	455	460
182	Val Glu Asp Ala Thr Gly Lys Leu Lys Leu His Lys Cys Lys Gly Pro		
183	465	470	475
185	Met Arg Leu Gly Gly Ser Arg Ala Leu Ser Asn Leu Val Pro Lys Tyr		480
186	485	490	495
188	Tyr Gly Gln Gly Ser Glu Ala Cys Thr Cys Asp Ser Gly Asp Tyr Lys		
189	500	505	510

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191 Leu Ser Leu Ala Gly Arg Arg Lys Lys Leu Phe Lys Lys Tyr Lys
 192 515 520 525
 194 Ala Ser Tyr Val Arg Ser Arg Ser Ile Arg Ser Val Ala Ile Glu Val
 195 530 535 540
 197 Asp Gly Arg Val Tyr His Val Gly Leu Gly Asp Ala Ala Gln Pro Arg
 198 545 550 555 560
 200 Asn Leu Thr Lys Arg His Trp Pro Gly Ala Pro Glu Asp Gln Asp Asp
 201 565 570 575
 203 Lys Asp Gly Gly Asp Phe Ser Gly Thr Gly Gly Leu Pro Asp Tyr Ser
 204 580 585 590
 206 Ala Ala Asn Pro Ile Lys Val Thr His Arg Cys Tyr Ile Leu Glu Asn
 207 595 600 605
 209 Asp Thr Val Gln Cys Asp Leu Asp Leu Tyr Lys Ser Leu Gln Ala Trp
 210 610 615 620
 212 Lys Asp His Lys Leu His Ile Asp His Glu Ile Glu Thr Leu Gln Asn
 213 625 630 635 640
 215 Lys Ile Lys Asn Leu Arg Glu Val Arg Gly His Leu Lys Lys Lys Arg
 216 645 650 655
 218 Pro Glu Glu Cys Asp Cys His Lys Ile Ser Tyr His Thr Gln His Lys
 219 660 665 670
 221 Gly Arg Leu Lys His Arg Gly Ser Ser Leu His Pro Phe Arg Lys Gly
 222 675 680 685
 224 Leu Gln Glu Lys Asp Lys Val Trp Leu Leu Arg Glu Gln Lys Arg Lys
 225 690 695 700
 227 Lys Lys Leu Arg Lys Leu Leu Lys Arg Leu Gln Asn Asn Asp Thr Cys
 228 705 710 715 720
 230 Ser Met Pro Gly Leu Thr Cys Phe Thr His Asp Asn Gln His Trp Gln
 231 725 730 735
 233 Thr Ala Pro Phe Trp Thr Leu Gly Pro Phe Cys Ala Cys Thr Ser Ala
 234 740 745 750
 236 Asn Asn Asn Thr Tyr Trp Cys Met Arg Thr Ile Asn Glu Thr His Asn
 237 755 760 765
 239 Phe Leu Phe Cys Glu Phe Ala Thr Gly Phe Leu Glu Tyr Phe Asp Leu
 240 770 775 780
 242 Asn Thr Asp Pro Tyr Gln Leu Met Asn Ala Val Asn Thr Leu Asp Arg
 243 785 790 795 800
 245 Asp Val Leu Asn Gln Leu His Val Gln Leu Met Glu Leu Arg Ser Cys
 246 805 810 815
 248 Lys Gly Tyr Lys Gln Cys Asn Pro Arg Thr Arg Asn Met Asp Leu Gly
 249 820 825 830
 251 Leu Lys Asp Gly Gly Ser Tyr Glu Gln Tyr Arg Gln Phe Gln Arg Arg
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 257 Trp Glu Gly Trp Glu Gly
 258 865 870
 261 <210> SEQ ID NO: 3
 262 <211> LENGTH: 2610
 263 <212> TYPE: DNA

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Input Set : A:\10147611.app
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 W--> 314 <400> SEQUENCE: 4
 W--> 315 000

10/24/01

VERIFICATION SUMMARY
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DATE: 10/24/2001
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Input Set : A:\10147611.app
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L:319 M:283 W: Missing Blank Line separator, <400> field identifier
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